

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-25 (cancelled)

Claim 26 (currently amended): A rotating instrument comprising:

a shaft (1) having an axis of rotation; and

a working member (2) which is secured to the shaft or can detachably be secured thereto,

wherein at least part of the working member (2) is made from a ceramic material, characterized in that at least one cutting edge and/or tothing consisting of the ceramic material is provided in the outer surface of the at least part of the working member (2) that is made from the ceramic material such that the at least one cutting edge and/or tothing consisting of the ceramic material is adapted to perform a cutting function, the outer surface of the working member (2) being configured to allow material cut away by the at least one cutting edge and/or tothing to proceed along the outer surface of the working member (2) in a direction that extends generally along the axis of rotation of the shaft, and the at least part of the working member (2) made from the ceramic material and containing the at least one cutting edge and/or tothing and consisting of the ceramic material has a surface roughness of 0.5 μm to 6 μm .

Claim 27 (previously presented): The instrument according to claim 26, characterized in that the at least part of the working member (2) made from the ceramic material has a surface roughness of 1 μm to 2 μm .

Claim 28 (previously presented): The instrument according to claim 26, characterized in that all geometrically created form transitions of the at least part of the working member (2) made from the ceramic material have radii of at least 0.01 mm to 5 mm.

Claim 29 (previously presented): The instrument according to claim 26, characterized in that all geometrically created form transitions of the at least part of the working member (2) made from the ceramic material have radii of at least 0.5 mm.

Claim 30 (previously presented): The instrument according to claim 26, characterized in that the working member (2) is provided with a core reinforcement defined by the depth of grooves or cuts made to provide the at least one cutting edge and/or toothing and the depth of the grooves or cuts is reduced from the free end to the shaft of the working member (2).

Claim 31 (previously presented): The instrument according to claim 30, characterized in that the core reinforcement has a substantially conical basic shape.

Claim 32 (previously presented): The instrument according to claim 30, characterized in that the core diameter increases by 0.25° to 3° towards the shaft.

Claim 33 (previously presented): The instrument according to claim 30, characterized in that the core diameter increases by 1° towards the shaft.

Claim 34 (previously presented): The instrument according to claim 26, characterized in that the at least part of the working member (2) made from the ceramic material has a microhardened surface.

Claim 35 (cancelled)

Claim 36 (previously presented): The instrument according to claim 26, characterized in that the surface of the at least part of the working member (2) made from the ceramic material is provided with a hard layer.

Claim 37 (previously presented): The instrument according to claim 26, characterized in that the surface of the at least part of the working member (2) made from the ceramic material has at least a depth mark.

Claim 38 (previously presented): The instrument according to claim 37, characterized in that the depth mark has a surface roughness of 1 µm to 10 µm.

Claim 39 (previously presented): The instrument according to claim 37, characterized in that the depth mark has a surface roughness of 2 µm to 4 µm.

Claim 40 (previously presented): The instrument according to claim 37, characterized in that the depth mark is a laser mark.

Claim 41 (previously presented): The instrument according to claim 37, characterized in that the depth mark comprises cut-in grooves.

Claim 42 (previously presented): The instrument according to claim 26, characterized in that the entire working member (2) and the entire shaft (1) are made from a ceramic material.

Claim 43 (previously presented): The instrument according to claim 26, characterized in that the working member (2) has a metallic carrier (3) and at least one layer (4) that is provided thereon and comprises the at least one part of the working member (2) that is made of the ceramic material.

Claim 44 (previously presented): The instrument according to claim 43, characterized in that the layer (4) of the ceramic material is connected to the carrier (3) by means of an adhesive.

Claim 45 (previously presented): The instrument according to claim 26, characterized in that the at least part of the working member (2) that is made from the ceramic material has a surface that is free of pores and smooth.

Claim 46 (canceled)

Claim 47 (previously presented): The instrument according to claim 26, characterized in that the ceramic material comprises aluminum oxide and/or zirconium oxide.

Claim 48 (canceled)

Claim 49 (previously presented): The instrument according to claim 26, characterized in that said instrument is designed as a drill.

Claim 50 (canceled)

Claim 51 (currently amended): A rotating instrument comprising:

a dental instrument adapted to perform a dental procedure, the dental instrument comprising:

a shaft (1) [;] and

a working member (2) adapted to operate at high speeds associated with the performance of a dental procedure, which working member (2) is secured to the shaft or can detachably be secured thereto,

wherein at least part of the working member (2) is made from a ceramic material, characterized in that at least one cutting edge and/or tothing consisting of the ceramic material is provided in the outer surface of the at least part of the working member (2) that is made from the ceramic material such that the at least one cutting edge and/or tothing consisting of the ceramic material is adapted to perform a cutting function, and the at least part of the working member (2) made from the ceramic material and containing the at least one cutting edge

and/or toothing consisting of the ceramic material has a surface roughness of 0.5 μm to 6 μm .

Claim 52 (previously presented): The dental instrument of claim 51, characterized in that all geometrically created form transitions of the at least part of the working member (2) made from the ceramic material have at least radii of 0.01 mm to 5 mm.

Claim 53 (previously presented): The dental instrument of claim 51, characterized in that the at least part of the working member (2) made from the ceramic material is provided with a core reinforcement defined by the depth of grooves or cuts made to provide the at least one cutting edge and/or toothing and the depth of the grooves or cuts is reduced from the free end to the shaft of the working member (2).

Claim 54 (previously presented): The dental instrument of claim 51, characterized in that the surface of the at least part of the working member (2) made from the ceramic material is microhardened.

Claim 55 (previously presented): The dental instrument of claim 51, characterized in that the surface of the at least part of the working member (2) made from the ceramic material is provided with a hard layer.

Claim 56 (previously presented): The dental instrument of claim 51, characterized in that the surface of the at least part of the working member (2) made from the ceramic material has at least a depth mark.

Claim 57 (previously presented): Performing a dental procedure using the dental instrument of claim 51.

Claim 58 (previously presented): The dental procedure of claim 57 characterized in that all geometrically created form transitions of the at least part of the working member (2) made from the ceramic material have radii of at least 0.01 mm to 5 mm.

Claim 59 (previously presented): The dental procedure of claim 57, characterized in that the at least part of the working member (2) made from the ceramic material is provided with a core reinforcement defined by the depth of grooves or cuts made to provide the at least one cutting edge and/or toothing and the depth of the grooves or cuts is reduced from the free end to the shaft of the working member (2).

Claim 60 (previously presented): The dental procedure of claim 57, characterized in that the surface of the at least part of the working member (2) made of the ceramic material is microhardened.

Claim 61 (previously presented): The dental procedure of claim 57, characterized in that the surface of the at least part of the working member (2) made from the ceramic material is provided with a hard layer.

Claim 62 (previously presented): The dental procedure of claim 57, characterized in that the surface of the at

least part of the working member (2) made from the ceramic material has at least a depth mark.

Claim 63 (previously presented): The dental procedure of claim 57, characterized in that the procedure comprises one of the generation of bone cavities, the treatment of bones and the insertion of implants.